Claims

Please amend the claims as follows, where underlines stand for additions and strikethroughs stand for deletions.

- 1. (Currently Amended) Process for improving energy supply when heating and melting a scrap bulk, wherein preheated oxidizing gas with addition of fossil fuels melts a channel into the scrap bulk, and further energy supply occurs through this channel and wherein hot blast is supplied to the scrap bulk from the top from a top position.
- 2. (Previously presented) The process as claimed in claim 1, wherein hot blast supply occurs centrally from the top.
- 3. (Previously presented) The process as claimed in claim 1, wherein the hot blast is divided into several separate jets.
- 4. (Previously presented) The process as claimed in claim 1, wherein the hot blast is distributed to a central jet with 35 to 65 % of the total amount and several jets outside the central jet for the rest.
- 5. (Previously presented) The process as claimed in claim 1, wherein hot blast is supplied via a vertically adjustable lance.
- 6. (Previously presented) The process as claimed in claim 5, wherein the hot blast lance rotates around the vertical axis.
- 7. (Previously presented) The process as claimed in claim 1, wherein a hot heel remains in the furnace.
- 8. (Previously presented) The process as claimed in claim 7, wherein the hot heel in the furnace makes up 10 to 30 % of the melt.

- 9. (Previously presented) The process as claimed in claim 1, wherein oxygen is injected via bottom blowing tuyeres.
- 10. (Previously presented) The process as claimed in claim 9, wherein the bottom blowing tuyeres are installed in an indentation of the furnace bottom.
- 11. (Previously presented) The process as claimed in claim 1, wherein a high hot blast velocity 500 to 900 m/sec is applied during a first phase and a reduced hot blast velocity approx.

 300 to 500 m/sec during a second phase.
- 12. (Previously presented) The process as claimed in claim 11, wherein the hot blast jet is enriched with oxygen to 30 to 50 % in phase 1, whereas there is no or hardly any oxygen enrichment in phase 2.
- 13. (Previously presented) The process as claimed in claim 11, wherein the distance of the hot blast jet to the surface of the scrap is 0.2 to 0.5 m in phase 1 and is adjusted to a distance to the iron bath of at least 3 m during phase 2.